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Directionally sensitive hearing aid incorporating two microphones -
enables direction of source of sound to be recognised from difference in
arrival times at opposite ends of acoustic channel

Patent Assignee: SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)

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Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19635229	A1	19980312	DE 1035229	A	19960830	199816 B
DK 9700979	A	19980301	DK 97979	A	19970828	199822
US 6069963	A	20000530	US 97914341	A	19970815	200033
DE 19635229	C2	20010426	DE 1035229	A	19960830	200124

Priority Applications (No Type Date): DE 1035229 A 19960830

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19635229	A1		8	H04R-025/00	
DK 9700979	A			H04R-025/00	
US 6069963	A			H04R-025/00	
DE 19635229	C2			H04R-025/00	

Abstract (Basic): DE 19635229 A

The aid encloses a slightly curved acoustic channel (3) with an opening (4,5) at each end closed by a cover (9,10). The internal wall is coated e.g. with metallisation (20) for radiation screening.

Two microphones (1,2) spaced apart along the channel detect the propagated sound. Parameters such as gain or sensitivity are adjustable by knobs (6,7) on the outer face of the channel. If so-called Si microphones are used the amplifying and filtering circuits may be integrated on the same chips.

ADVANTAGE - Good directional effect is achieved with better protection against contamination of sound inlets and good electromagnetic screening.

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